

ABSTRACT OF THE DISCLOSURE

A DUV-capable dry objective for microscopes comprises lens groups made of quartz glass, fluorite, and in some cases also lithium fluoride. It possesses a DUV focus for a DUV wavelength region $\lambda_{\text{DUV}} \pm \Delta\lambda$, where $\Delta\lambda = 8 \text{ nm}$, and additionally a parfocal IR focus for an IR wavelength λ_{IR} , where $760 \text{ nm} = \lambda_{\text{IR}} = 920 \text{ nm}$. For that purpose, the penultimate element is of concave configuration on both sides, and its object-side outer radius is much smaller than its image-side outer radius. The DUV objective is IR autofocus-capable.

(FIG 1)

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